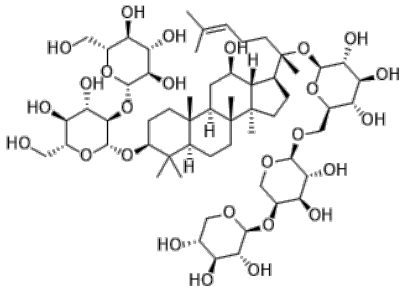
ProbeChem®
Expedite Your Scientific Research

WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Ginsenoside Ra1
Cat. No.	:	PC-28615
CAS No.	:	83459-41-0
Molecular Formula	:	$C_{58}H_{98}O_{26}$
Molecular Weight	:	1211.40
Target	:	Myosin
Solubility	:	10 mM in DMSO



Biological Activity

Ginsenoside Ra1 is a dammarane-type bisdesmosidic saponin in the roots of Panax ginseng and potent on-muscle myosin heavy chain IIA (NMMHC IIA) inhibitor, shows significant inhibitory effect on protein tyrosine kinase (PTK) activation induced by hypoxia/reoxygenation (H/R).
Ginsenoside Ra1 binds to strongly to NMMHC IIA, whose knockdown ameliorated sepsis-induced endothelial barrier disruption and multi-organ injury (lung, intestine, liver and kidney).
Ginsenoside Ra1 attenuates mortality, hypothermia, multi-organ injury, vascular hyperpermeability and endothelial junction disruption in septic mice.

References

Dou DQ, et al. Planta Med. 2001 Feb;67(1):19-23.

Tang J, et al. Br J Pharmacol. 2026 Oct 13. doi: 10.1111/bph.70689.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com